

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

In the claims:

1. (currently amended) A method for requesting a consistent state in a computing environment using a first thread, the computing environment including multiple threads, the multiple threads including the first thread, comprising:

saving a snapshot of a state of the first thread and thereafter setting the state of the first thread to a safe state;
acquiring a consistent state lock using the first thread;
identifying substantially all threads that are inconsistent, the inconsistent threads being included in the multiple threads;
altering the state of the substantially all threads that are inconsistent to a consistent state;
notifying the first thread when the state of the substantially all threads that are inconsistent have been altered to be consistent;
restoring the state of the first thread from the snapshot; and
releasing the consistent state lock using the first thread.

2. (Original) A method as recited in claim 1 further comprising:
performing a garbage collection after releasing the consistent state lock using the first thread.

3. (Original) A method as recited in claim 2 further comprising:
notifying the substantially all threads that have been altered to be consistent that the garbage collection has been performed.

4. (Currently Amended) An apparatus for requesting a consistent state in a computing environment using a first thread, the computing environment including multiple threads, the multiple threads including the first thread, the apparatus comprising:

means for saving a snapshot of a state of the first thread and thereafter setting the state of the first thread to a safe state;
a means for acquiring a consistent state lock using the first thread;

a means for identifying substantially all threads that are inconsistent, the inconsistent threads being included in the multiple threads;

a means for altering the state of the substantially all threads that are inconsistent to a consistent state;

a means for notifying the first thread when the state of the substantially all threads that are inconsistent have been altered to be consistent;

a means for restoring the state of the first thread from the snapshot; and

a means for releasing the consistent state lock using the first thread.

5. (Original) An apparatus as recited in claim 4 further comprising:

a means for performing a garbage collection after releasing the consistent state lock using the first thread.

6. (Original) An apparatus as recited in claim 5 further comprising:

a means for notifying the substantially all threads that have been altered to be consistent that the garbage collection has been performed.

7. (Currently Amended) A computer product for requesting a consistent state in a computing environment using a first thread, the computing environment including multiple threads, the multiple threads including the first thread, the computer product comprising computer readable media including:

computer code for saving a snapshot of a state of the first thread and thereafter setting the state of the first thread to a safe state;

computer code for acquiring a consistent state lock using the first thread;

computer code for identifying substantially all threads that are inconsistent, the inconsistent threads being included in the multiple threads;

computer code for altering the state of the substantially all threads that are inconsistent to a consistent state;

computer code for notifying the first thread when the state of the substantially all threads that are inconsistent have been altered to be consistent;

a means for restoring the state of the first thread from the snapshot; and

computer code for releasing the consistent state lock using the first thread.

8. (Original) A computer product as recited in claim 7 further comprising:

computer code for performing a garbage collection after releasing the consistent state lock using the first thread.

9. (Original) A computer product as recited in claim 8 further comprising:
computer code for notifying the substantially all threads that have been altered to be consistent that the garbage collection has been performed.